

# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/594,266  
Source: IFWP  
Date Processed by STIC: 10/10/06

# ***ENTERED***

## CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/594,266

CRF Edit Date: 10/10/06  
Edited by: [Signature]

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

✓  
\_\_\_ Other: globally corrected spelling of "sapiens"  
\_\_\_\_\_  
\_\_\_\_\_



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/594,266

DATE: 10/10/2006

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

3 <110> APPLICANT: Takeda Pharmaceutical Company Limited  
 5 <120> TITLE OF INVENTION: PREVENTIVE/REMEDY FOR RESPIRATORY DISEASES  
 7 <130> FILE REFERENCE: G06-0052  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/594,266  
 C--> 9 <141> CURRENT FILING DATE: 2006-09-26  
 9 <150> PRIOR APPLICATION NUMBER: JP2004-092064  
 10 <151> PRIOR FILING DATE: 2004-03-26  
 12 <160> NUMBER OF SEQ ID NOS: 73  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 816  
 16 <212> TYPE: DNA  
 17 <213> ORGANISM: Homo sapiens  
 19 <400> SEQUENCE: 1  
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 21 cagccctctt gggaccacct gaggagctgg gaggccctcc tacagtgcgc cttcttcccg 120  
 22 gtcattcttct ccatcaccac atacgtgggc ttttgctgctg ccttcgtggt cctggatatc 180  
 23 ctgtgctcct ggggtgcccgc cctgcggcgc tacaagatcc accctgactt ctcgccatcc 240  
 24 gcgcagcagc tgctaccttg cctggggcag accctctacc agcatgtgat gtttgtgttc 300  
 25 cccgtgacgc tgctgcattg ggccgcagc ccggccctcc tgccccacga agtcccgcag 360  
 26 ctgctcctgc tgctgcacca catcctgttc tgctgtctac tcttcgacat ggagttcttc 420  
 27 gtgtggcacc tgctgcacca caaggtgccc tggtgtgacc gcaccttcca caaggtgcac 480  
 28 caccagaact cgtcctcggt cgcgtggcga acgcagtata tgagcgtctg ggaactgttt 540  
 29 tctttgggct tcttcgacat gatgaacgtc aactgtctcg ggtgccaccc gctcaccacc 600  
 30 ctgaccttcc acgtggtcaa catctggctt tccgtggagg accactccgg ctacaacttc 660  
 31 ccttggtcca ctcacagact ggtgcccttc ggggtgtgac ggggtgtggt gcaccacgac 720  
 32 ctgcatcact ctcactttaa ctgcaacttc gctccgtact ttacacactg ggacaaaata 780  
 33 ctgggaacgc tgcggactgc atctgtccca gcgcgg 816  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 272  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Homo sapiens  
 40 <400> SEQUENCE: 2  
 41 Met Ser Cys His Asn Cys Ser Asp Pro Gln Val Leu Cys Ser Ser Gly  
 42 5 10 15  
 43 Gln Leu Phe Leu Gln Pro Leu Trp Asp His Leu Arg Ser Trp Glu Ala  
 44 20 25 30  
 45 Leu Leu Gln Ser Pro Phe Phe Pro Val Ile Phe Ser Ile Thr Thr Tyr  
 46 35 40 45  
 47 Val Gly Phe Cys Leu Pro Phe Val Val Leu Asp Ile Leu Cys Ser Trp  
 48 50 55 60  
 49 Val Pro Ala Leu Arg Arg Tyr Lys Ile His Pro Asp Phe Ser Pro Ser  
 50 65 70 75 80  
 51 Ala Gln Gln Leu Leu Pro Cys Leu Gly Gln Thr Leu Tyr Gln His Val

## RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

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52          85          90          95
53 Met Phe Val Phe Pro Val Thr Leu Leu His Trp Ala Arg Ser Pro Ala
54          100          105          110
55 Leu Leu Pro His Glu Ala Pro Glu Leu Leu Leu Leu His His Ile
56          115          120          125
57 Leu Phe Cys Leu Leu Leu Phe Asp Met Glu Phe Phe Val Trp His Leu
58          130          135          140
59 Leu His His Lys Val Pro Trp Leu Tyr Arg Thr Phe His Lys Val His
60 145          150          155          160
61 His Gln Asn Ser Ser Ser Phe Ala Leu Ala Thr Gln Tyr Met Ser Val
62          165          170          175
63 Trp Glu Leu Phe Ser Leu Gly Phe Phe Asp Met Met Asn Val Thr Leu
64          180          185          190
65 Leu Gly Cys His Pro Leu Thr Thr Leu Thr Phe His Val Val Asn Ile
66          195          200          205
67 Trp Leu Ser Val Glu Asp His Ser Gly Tyr Asn Phe Pro Trp Ser Thr
68          210          215          220
69 His Arg Leu Val Pro Phe Gly Trp Tyr Gly Gly Val Val His His Asp
70 225          230          235          240
71 Leu His His Ser His Phe Asn Cys Asn Phe Ala Pro Tyr Phe Thr His
72          245          250          255
73 Trp Asp Lys Ile Leu Gly Thr Leu Arg Thr Ala Ser Val Pro Ala Arg
74          260          265          270
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 924
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 3
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83 ctctcgtggc tgccgcatgg gggcgccctg tctctggccg aggcgagccg cgcaagtttc 120
84 ccgggacctc cagagttgca ctccgaagac tccagattcc gagagttgcg gaaacgctac 180
85 gaggacctgc taaccaggct gcgggccaac cagagctggg aagattcgaa caccgacctc 240
86 gtccccggcc ctgcagtcgc gatactcacg ccagaagtgc ggctgggata cggcggccac 300
87 ctgcacctgc gtatctctcg ggccgcccct cctgaggggc tccccgaggc ctcccgccct 360
88 caccgggctc tgttcgggct gtccccgacg gcgtcaaggt cgtgggacgt gacacgaccg 420
89 ctgcggcgct agctcagcct tgcaagaccc caggcgcccg cgctgcacct gcgactgtcg 480
90 ccgccgccgt cgcagtcgga ccaactgctg gcagaatctt cgtccgcacg gccccagctg 540
91 gagttgcact tgcggccgca agccgccagg gggcgccgca gaggcgctgc gcgcaacggg 600
92 gaccactgtc cgtcggggcc cgggcgttgc tgccgtctgc acacgggtccg cgcgtcgctg 660
93 gaagacctgg gctggggcca ttgggtgctg tcgccacggg aggtgcaagt gacctgtgct 720
94 atcggcgcgt gcccagacca gttccgggcy gcaaacatgc acgcgcagat caagacgagc 780
95 ctgcaccgcc tgaagcccca cacggtgcca gcgcctgctc gcgtgcccg cagctacaat 840
96 cccatggtgc tcattcaaaa gaccgacacc ggggtgtcgc tccagaccta tgatgacttg 900
97 ttagccaaag actgccactg cata 924
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 308
101 <212> TYPE: PRT
102 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 4

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## RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

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105 Met Pro Gly Gln Glu Leu Arg Thr Leu Asn Gly Ser Gln Met Leu Leu
106           5           10           15
107 Val Leu Leu Val Leu Ser Trp Leu Pro His Gly Gly Ala Leu Ser Leu
108           20           25           30
109 Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu Leu His Ser
110           35           40           45
111 Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr Glu Asp Leu Leu
112           50           55           60
113 Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp Ser Asn Thr Asp Leu
114 65           70           75           80
115 Val Pro Ala Pro Ala Val Arg Ile Leu Thr Pro Glu Val Arg Leu Gly
116           85           90           95
117 Ser Gly Gly His Leu His Leu Arg Ile Ser Arg Ala Ala Leu Pro Glu
118           100          105          110
119 Gly Leu Pro Glu Ala Ser Arg Leu His Arg Ala Leu Phe Arg Leu Ser
120           115          120          125
121 Pro Thr Ala Ser Arg Ser Trp Asp Val Thr Arg Pro Leu Arg Arg Gln
122           130          135          140
123 Leu Ser Leu Ala Arg Pro Gln Ala Pro Ala Leu His Leu Arg Leu Ser
124 145           150          155          160
125 Pro Pro Pro Ser Gln Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala
126           165          170          175
127 Arg Pro Gln Leu Glu Leu His Leu Arg Pro Gln Ala Ala Arg Gly Arg
128           180          185          190
129 Arg Arg Ala Arg Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly
130           195          200          205
131 Arg Cys Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly
132           210          215          220
133 Trp Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys
134 225           230          235          240
135 Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala Gln
136           245          250          255
137 Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val Pro Ala Pro
138           260          265          270
139 Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile Gln Lys Thr
140           275          280          285
141 Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu Leu Ala Lys Asp
142           290          295          300
143 Cys His Cys Ile
144 305
146 <210> SEQ ID NO: 5
147 <211> LENGTH: 621
148 <212> TYPE: DNA
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 5
152 atggctggac ctgccacca gagcccatg aagctgatgg ccctgcagct gctgctgtgg      60
153 cacagtgcac tctggacagt gcaggaagcc accccctgg gccctgccag ctccctgccc      120
154 cagagcttcc tgctcaagtg cttagagcaa gtgaggaaga tccagggcga tggcgagcgc      180
155 ctccaggaga agctggtgag tgagtgtgcc acctacaagc tgtgccaccc cgaggagctg      240

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## RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

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156 gtgctgctcg gacactctct gggcatcccc tgggctcccc tgagcagctg cccagccag 300
157 gccctgcagc tggcaggctg cttgagccaa ctccatagcg gccttttcct ctaccagggg 360
158 ctccctgcagg ccctggaagg gatctccccc gagttgggtc ccaccttgga cacactgcag 420
159 ctggacgtcg ccgactttgc caccaccatc tggcagcaga tggaagaact gggaatggcc 480
160 cctgccctgc agcccaccca gggtgccatg ccggccttcg cctctgcttt ccagcgccgg 540
161 gcaggagggg tcctggttgc ctcccatctg cagagcttcc tggaggtgtc gtaccgcgtt 600
162 ctacgccacc ttgcccagcc c 621
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 207
166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 6
170 Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln
171          5          10          15
172 Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro
173          20          25          30
174 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu
175          35          40          45
176 Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys
177          50          55          60
178 Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu
179          65          70          75          80
180 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser
181          85          90          95
182 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His
183          100         105         110
184 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile
185          115         120         125
186 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala
187          130         135         140
188 Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala
189          145         150         155         160
190 Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala
191          165         170         175
192 Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser
193          180         185         190
194 Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
195          195         200         205
197 <210> SEQ ID NO: 7
198 <211> LENGTH: 696
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 7
203 atgaaggaga gacgggcccc ccagccagtc gtggccagat gtaagctcgt tctggtcggg 60
204 gacgtgcagt gtgggaagac cgcgatgttg caagtgttag cgaaggattg ctatccagag 120
205 acctatgtgc ccaccgtgtt cgaaaattac acagcctgtt tggagacaga ggaacagagg 180
206 gtggagctta gtctctggga tacctcagga tctccctact acgataatgt ccgtccactc 240
207 tgctacagcg actcggatgc agtattacta tgttttgaca tcagccgtcc agagacagtg 300
208 gacagcgcac tcaagaagtg gaggacagaa atcctagatt attgtcccag caccgcggtt 360

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## RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

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209 ttgctcattg gctgcaagac agacctgcga acagacctga gtactctgat ggagctgtcc 420
210 caccagaagc aggcgcccac ctcctatgag caggggtgtg caatagcaaa gcagctgggt 480
211 gcagaaatct acctggaagg ctcagctttc acctcagaaa agagcatcca cagcatcttt 540
212 cggacggcat ccatgctgtg tctgaacaag cctagccac tgccccagaa gagccctgtc 600
213 cgaagcctct ccaaacgact gctccacctc cccagtcgct ctgaactcat ctcttctacc 660
214 ttcaagaagg aaaaggccaa aagctgttcc attatg 696
216 <210> SEQ ID NO: 8
217 <211> LENGTH: 232
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 8
222 Met Lys Glu Arg Arg Ala Pro Gln Pro Val Val Ala Arg Cys Lys Leu
223           5              10              15
224 Val Leu Val Gly Asp Val Gln Cys Gly Lys Thr Ala Met Leu Gln Val
225           20              25              30
226 Leu Ala Lys Asp Cys Tyr Pro Glu Thr Tyr Val Pro Thr Val Phe Glu
227           35              40              45
228 Asn Tyr Thr Ala Cys Leu Glu Thr Glu Glu Gln Arg Val Glu Leu Ser
229           50              55              60
230 Leu Trp Asp Thr Ser Gly Ser Pro Tyr Tyr Asp Asn Val Arg Pro Leu
231           65              70              75              80
232 Cys Tyr Ser Asp Ser Asp Ala Val Leu Leu Cys Phe Asp Ile Ser Arg
233           85              90              95
234 Pro Glu Thr Val Asp Ser Ala Leu Lys Lys Trp Arg Thr Glu Ile Leu
235           100             105             110
236 Asp Tyr Cys Pro Ser Thr Arg Val Leu Leu Ile Gly Cys Lys Thr Asp
237           115             120             125
238 Leu Arg Thr Asp Leu Ser Thr Leu Met Glu Leu Ser His Gln Lys Gln
239           130             135             140
240 Ala Pro Ile Ser Tyr Glu Gln Gly Cys Ala Ile Ala Lys Gln Leu Gly
241           145             150             155             160
242 Ala Glu Ile Tyr Leu Glu Gly Ser Ala Phe Thr Ser Glu Lys Ser Ile
243           165             170             175
244 His Ser Ile Phe Arg Thr Ala Ser Met Leu Cys Leu Asn Lys Pro Ser
245           180             185             190
246 Pro Leu Pro Gln Lys Ser Pro Val Arg Ser Leu Ser Lys Arg Leu Leu
247           195             200             205
248 His Leu Pro Ser Arg Ser Glu Leu Ile Ser Ser Thr Phe Lys Lys Glu
249           210             215             220
250 Lys Ala Lys Ser Cys Ser Ile Met
251           225             230
253 <210> SEQ ID NO: 9
254 <211> LENGTH: 744
255 <212> TYPE: DNA
256 <213> ORGANISM: Homo sapiens
258 <400> SEQUENCE: 9
259 atggagagag ccagtctgat ccagaaggcc aagctggcag agcaggccga acgctatgag 60
260 gacatggcag ccttcatgaa aggcgccgtg gagaagggcg aggagctctc ctgcgaagag 120
261 cgaaacctgc tctcagtagc ctataagaac gtggtgggcg gccagagggc tgcttgagg 180

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/594,266

DATE: 10/10/2006

TIME: 14:53:52

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date



**Raw Sequence Listing before editing  
(for reference only)**



IFWP

## RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-005?SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

3 <110> APPLICANT: Takeda Pharmaceutical Company Limited  
 5 <120> TITLE OF INVENTION: PREVENTIVE/REMEDY FOR RESPIRATORY DISEASES  
 7 <130> FILE REFERENCE: G06-0052  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/594,266  
 C--> 9 <141> CURRENT FILING DATE: 2006-09-26  
 9 <150> PRIOR APPLICATION NUMBER: JP2004-092064  
 10 <151> PRIOR FILING DATE: 2004-03-26  
 12 <160> NUMBER OF SEQ ID NOS: 73  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 816  
 16 <212> TYPE: DNA  
 17 <213> ORGANISM: Homo sapiens  
 19 <400> SEQUENCE: 1

20 atgagctgcc acaactgctc cgacccccag gtcctttgca gctccgggca gctgttctcg 60  
 21 cagcccctct gggaccacct gaggagctgg gaggccctcc tacagtcgcc cttcttcccg 120  
 22 gtcattcttct ccatcaccac atacgtgggc ttttgctgc ccttcgtggt cctggatatc 180  
 23 ctgtgctcct ggggtgcccgc cctgcggcgc tacaagatcc accctgactt ctgccatcc 240  
 24 ggcagcagc tgctacctg cctggggcag accctctacc agcatgtgat gtttgtgttc 300  
 25 cccgtgacgc tgctgcattg ggcccgcagc ccggccctcc tgccccacga agctcccag 360  
 26 ctgctcctgc tgctgcacca catcctgttc tgctgctac tcttcgacat ggagttcttc 420  
 27 gtgtggcacc tgctgcacca caagtgccc tggctgtacc gcaccttcca caaggtgcac 480  
 28 caccagaact cgtcctcgtt cgcgtggca acgcagtata tgagcgtctg ggaactgttt 540  
 29 tctttgggct tcttcgacat gatgaacgtc acactgctcg ggtgccacc gctcaccacc 600  
 30 ctgaccttcc acgtggtaaa catctggctt tccgtggagg accactccgg ctacaacttc 660  
 31 ccttggtcca ctacagact ggtgccttc ggtgggtacg ggggtgtggt gcaccacgac 720  
 32 ctgcatcact ctactttaa ctgcaacttc gctcgtact ttacacactg ggacaaaata 780  
 33 ctgggaacgc tgcggactgc atctgtccca gcgcgg 816

35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 272  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Homo sapiens  
 40 <400> SEQUENCE: 2

41 Met Ser Cys His Asn Cys Ser Asp Pro Gln Val Leu Cys Ser Ser Gly  
 42 5 10 15  
 43 Gln Leu Phe Leu Gln Pro Leu Trp Asp His Leu Arg Ser Trp Glu Ala  
 44 20 25 30  
 45 Leu Leu Gln Ser Pro Phe Phe Pro Val Ile Phe Ser Ile Thr Thr Tyr  
 46 35 40 45  
 47 Val Gly Phe Cys Leu Pro Phe Val Val Leu Asp Ile Leu Cys Ser Trp  
 48 50 55 60  
 49 Val Pro Ala Leu Arg Arg Tyr Lys Ile His Pro Asp Phe Ser Pro Ser  
 50 65 70 75 80  
 51 Ala Gln Gln Leu Leu Pro Cys Leu Gly Gln Thr Leu Tyr Gln His Val

Does Not Comply  
 Corrected Diskette Needed

## RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

52		85		90		95
53	Met Phe Val Phe Pro Val Thr Leu Leu His Trp Ala Arg Ser Pro Ala					
54		100		105		110
55	Leu Leu Pro His Glu Ala Pro Glu Leu Leu Leu Leu Leu His His Ile					
56		115		120		125
57	Leu Phe Cys Leu Leu Leu Phe Asp Met Glu Phe Phe Val Trp His Leu					
58		130		135		140
59	Leu His His Lys Val Pro Trp Leu Tyr Arg Thr Phe His Lys Val His					
60	145		150		155	160
61	His Gln Asn Ser Ser Phe Ala Leu Ala Thr Gln Tyr Met Ser Val					
62		165		170		175
63	Trp Glu Leu Phe Ser Leu Gly Phe Phe Asp Met Met Asn Val Thr Leu					
64		180		185		190
65	Leu Gly Cys His Pro Leu Thr Thr Leu Thr Phe His Val Val Asn Ile					
66		195		200		205
67	Trp Leu Ser Val Glu Asp His Ser Gly Tyr Asn Phe Pro Trp Ser Thr					
68		210		215		220
69	His Arg Leu Val Pro Phe Gly Trp Tyr Gly Gly Val Val His His Asp					
70	225		230		235	240
71	Leu His His Ser His Phe Asn Cys Asn Phe Ala Pro Tyr Phe Thr His					
72		245		250		255
73	Trp Asp Lys Ile Leu Gly Thr Leu Arg Thr Ala Ser Val Pro Ala Arg					
74		260		265		270

76 &lt;210&gt; SEQ ID NO: 3

77 &lt;211&gt; LENGTH: 924

78 &lt;212&gt; TYPE: DNA

79 &lt;213&gt; ORGANISM: Homo sapience

81 &lt;400&gt; SEQUENCE: 3

82	atgcccgggc aagaactcag gacgctgaat ggctctcaga tgctcctggt gttgctggtg	60
83	ctctcgtggc tgccgcatgg gggcgccctg tctctggccg aggcgagccg cgcaagtttc	120
84	ccgggaccct cagagttgca ctccgaagac tccagattcc gagagttgcy gaaacgctac	180
85	gaggacctgc taaccaggct gcgggccaac cagagctggg aagattcgaa caccgacctc	240
86	gtcccgggcc ctgcagtcgg gatactcacg ccagaagtgc ggctgggatc cggcgggccac	300
87	ctgcacctgc gtatctctcg ggcggccctt cctgaggggc tccccgaggc ctcccgccctt	360
88	caccgggctc tgttcgggt gtcccgacg gcgtcaaggt cgtgggacgt gacacgaccg	420
89	ctgcggcgtc agctcagcct tgcaagacc caggcgcccc cgctgcacct gcgactgtcg	480
90	ccgcccgcgt cgcagtcgga ccaactgctg gcagaatctt cgtccgcacg gccccagctg	540
91	gagttgcact tgcggccgca agccgccagg gggcgccgca gagcgctgc gcgcaacggg	600
92	gaccactgtc cgctcgggcc cgggcgttgc tgccgtctgc acacggtccg cgcgtcgtcg	660
93	gaagacctgg gctgggcca ttgggtgctg tcgccacggg aggtgcaagt gaccatgtgc	720
94	atcggcgcgt gcccagacca gttccgggcy gcaaacatgc acgcgcagat caagacgagc	780
95	ctgcaccgcc tgaagcccg caccgtgcca gcgccctgct gcgtgcccgc cagctacaat	840
96	cccatggtgc tcattcaaaa gaccgacacc ggggtgtcgc tccagacctg tgatgacttg	900
97	ttagccaaag actgccactg cata	924

99 &lt;210&gt; SEQ ID NO: 4

100 &lt;211&gt; LENGTH: 308

101 &lt;212&gt; TYPE: PRT

102 &lt;213&gt; ORGANISM: Homo sapience

104 &lt;400&gt; SEQUENCE: 4

## RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

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105 Met Pro Gly Gln Glu Leu Arg Thr Leu Asn Gly Ser Gln Met Leu Leu
106              5              10              15
107 Val Leu Leu Val Leu Ser Trp Leu Pro His Gly Gly Ala Leu Ser Leu
108              20              25              30
109 Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu Leu His Ser
110              35              40              45
111 Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr Glu Asp Leu Leu
112              50              55              60
113 Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp Ser Asn Thr Asp Leu
114              65              70              75              80
115 Val Pro Ala Pro Ala Val Arg Ile Leu Thr Pro Glu Val Arg Leu Gly
116              85              90              95
117 Ser Gly Gly His Leu His Leu Arg Ile Ser Arg Ala Ala Leu Pro Glu
118              100             105             110
119 Gly Leu Pro Glu Ala Ser Arg Leu His Arg Ala Leu Phe Arg Leu Ser
120              115             120             125
121 Pro Thr Ala Ser Arg Ser Trp Asp Val Thr Arg Pro Leu Arg Arg Gln
122              130             135             140
123 Leu Ser Leu Ala Arg Pro Gln Ala Pro Ala Leu His Leu Arg Leu Ser
124 145              150             155             160
125 Pro Pro Pro Ser Gln Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala
126              165             170             175
127 Arg Pro Gln Leu Glu Leu His Leu Arg Pro Gln Ala Ala Arg Gly Arg
128              180             185             190
129 Arg Arg Ala Arg Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly
130              195             200             205
131 Arg Cys Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly
132              210             215             220
133 Trp Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys
134 225              230             235             240
135 Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala Gln
136              245             250             255
137 Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val Pro Ala Pro
138              260             265             270
139 Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile Gln Lys Thr
140              275             280             285
141 Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu Leu Ala Lys Asp
142              290             295             300
143 Cys His Cys Ile
144 305

```

146 &lt;210&gt; SEQ ID NO: 5

147 &lt;211&gt; LENGTH: 621

148 &lt;212&gt; TYPE: DNA

149 &lt;213&gt; ORGANISM: Homo sapience

151 &lt;400&gt; SEQUENCE: 5

```

152 atggctggac ctgccacca gagcccatg aagctgatgg ccctgcagct gctgctgtgg      60
153 cacagtgcac tctggacagt gcaggaagcc accccctgg gccctgccag ctccctgccc      120
154 cagagcttcc tgctcaagtg cttagagcaa gtgaggaaga tccagggcga tggcgacgcg      180
155 ctccaggaga agctggtgag tgagtgtgcc acctacaagc tgtgccaccc cgaggagctg      240

```

## RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

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156 gtgctgctcg gacactctct gggcatcccc tgggtcccc tgagcagctg cccagccag 300
157 gccctgcagc tggcaggctg cttgagccaa ctccatagcg gccttttcct ctaccagggg 360
158 ctctgcagc ccctggaagg gatctcccc gagttgggtc ccaccttga cactgcag 420
159 ctggacgtcg ccgactttgc caccaccatc tggcagcaga tggagaact gggaatggcc 480
160 cctgccctgc agccaccca gggtgccatg ccggccttcg cctctgcttt ccagcgccgg 540
161 gcaggagggg tcctggttgc ctcccatctg cagagcttcc tggaggtgtc gtaccgcgtt 600
162 ctacgccacc ttgccagcc c 621

```

164 &lt;210&gt; SEQ ID NO: 6

165 &lt;211&gt; LENGTH: 207

166 &lt;212&gt; TYPE: PRT

167 &lt;213&gt; ORGANISM: Homo sapience

169 &lt;400&gt; SEQUENCE: 6

170 Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln

171 5 10 15

172 Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro

173 20 25 30

174 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu

175 35 40 45

176 Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys

177 50 55 60

178 Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu

179 65 70 75 80

180 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser

181 85 90 95

182 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His

183 100 105 110

184 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile

185 115 120 125

186 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala

187 130 135 140

188 Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala

189 145 150 155 160

190 Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala

191 165 170 175

192 Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser

193 180 185 190

194 Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro

195 195 200 205

197 &lt;210&gt; SEQ ID NO: 7

198 &lt;211&gt; LENGTH: 696

199 &lt;212&gt; TYPE: DNA

200 &lt;213&gt; ORGANISM: Homo sapience

202 &lt;400&gt; SEQUENCE: 7

203 atgaaggaga gacgggcccc ccagccagtc gtggccagat gtaagctcgt tctggtcggg 60

204 gacgtgcagt gtgggaagac cgcgatgttg caagtgttag cgaaggattg ctatccagag 120

205 acctatgtgc ccaccgtgtt cgaaaattac acagcctgtt tggagacaga ggaacagagg 180

206 gtggagctta gtctctggga tacctcagga tctccctact acgataatgt ccgtccactc 240

207 tgctacagcg actcggatgc agtattacta tgttttgaca tcagccgtcc agagacagtg 300

208 gacagcgcac tcaagaagtg gaggacagaa atcctagatt attgtcccag caccgcggtt 360

## RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

209 ttgctcattg gctgcaagac agacctgcga acagacctga gtactctgat ggagctgtcc 420  
 210 caccagaagc aggcgcccac ctcctatgag cagggttggt caatagcaaa gcagctgggt 480  
 211 gcagaaatct acctggaagg ctcagctttc acctcagaaa agagcatcca cagcatcttt 540  
 212 cggacggcat ccatgctgtg tctgaacaag cctagcccac tgccccagaa gagccctgtc 600  
 213 cgaagcctct ccaaagcact gctccacctc cccagtcgct ctgaactcat ctcttctacc 660  
 214 ttcaagaagg aaaaggccaa aagctgttcc attatg 696

216 &lt;210&gt; SEQ ID NO: 8

217 &lt;211&gt; LENGTH: 232

218 &lt;212&gt; TYPE: PRT

219 &lt;213&gt; ORGANISM: Homo sapience

221 &lt;400&gt; SEQUENCE: 8

222 Met Lys Glu Arg Arg Ala Pro Gln Pro Val Val Ala Arg Cys Lys Leu  
 223 5 10 15

224 Val Leu Val Gly Asp Val Gln Cys Gly Lys Thr Ala Met Leu Gln Val  
 225 20 25 30

226 Leu Ala Lys Asp Cys Tyr Pro Glu Thr Tyr Val Pro Thr Val Phe Glu  
 227 35 40 45

228 Asn Tyr Thr Ala Cys Leu Glu Thr Glu Glu Gln Arg Val Glu Leu Ser  
 229 50 55 60

230 Leu Trp Asp Thr Ser Gly Ser Pro Tyr Tyr Asp Asn Val Arg Pro Leu  
 231 65 70 75 80

232 Cys Tyr Ser Asp Ser Asp Ala Val Leu Leu Cys Phe Asp Ile Ser Arg  
 233 85 90 95

234 Pro Glu Thr Val Asp Ser Ala Leu Lys Lys Trp Arg Thr Glu Ile Leu  
 235 100 105 110

236 Asp Tyr Cys Pro Ser Thr Arg Val Leu Leu Ile Gly Cys Lys Thr Asp  
 237 115 120 125

238 Leu Arg Thr Asp Leu Ser Thr Leu Met Glu Leu Ser His Gln Lys Gln  
 239 130 135 140

240 Ala Pro Ile Ser Tyr Glu Gln Gly Cys Ala Ile Ala Lys Gln Leu Gly  
 241 145 150 155 160

242 Ala Glu Ile Tyr Leu Glu Gly Ser Ala Phe Thr Ser Glu Lys Ser Ile  
 243 165 170 175

244 His Ser Ile Phe Arg Thr Ala Ser Met Leu Cys Leu Asn Lys Pro Ser  
 245 180 185 190

246 Pro Leu Pro Gln Lys Ser Pro Val Arg Ser Leu Ser Lys Arg Leu Leu  
 247 195 200 205

248 His Leu Pro Ser Arg Ser Glu Leu Ile Ser Ser Thr Phe Lys Lys Glu  
 249 210 215 220

250 Lys Ala Lys Ser Cys Ser Ile Met

251 225 230

253 &lt;210&gt; SEQ ID NO: 9

254 &lt;211&gt; LENGTH: 744

255 &lt;212&gt; TYPE: DNA

256 &lt;213&gt; ORGANISM: Homo sapience

258 &lt;400&gt; SEQUENCE: 9

259 atggagagag ccagtctgat ccagaaggcc aagctggcag agcaggccga acgctatgag 60

260 gacatggcag ccttcataaa aggcgccgtg gagaagggcg aggagctctc ctgcgaagag 120

261 cgaaacctgc tctcagtagc ctataagaac gtgggtggcg gccagagggc tgccctggagg 180

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/594,266

DATE: 10/05/2006

TIME: 09:44:38

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date